

Data Path : Z:\voasrv\HPCHEM1\MSVOA\_N\Data\VN111824\  
 Data File : VN084933.D  
 Acq On : 18 Nov 2024 20:28  
 Operator : JC\MD  
 Sample : VSTDCCC050  
 Misc : 5.0mL/MSVOA\_N/WATER  
 ALS Vial : 26 Sample Multiplier: 1

Instrument :  
 MSVOA\_N  
 ClientSampleId :  
 VSTDCCC050EC

Quant Time: Nov 19 00:35:55 2024  
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA\_N\methods\82N103024W.M  
 Quant Title : SW846 8260  
 QLast Update : Thu Oct 31 18:45:38 2024  
 Response via : Initial Calibration

### Manual Integrations APPROVED

Reviewed By : John Carlone 11/19/2024  
 Supervised By : Mahesh Dadoda 11/19/2024

| Compound                   | R.T.   | QIon | Response | Conc   | Units | Dev(Min) |
|----------------------------|--------|------|----------|--------|-------|----------|
| -----                      |        |      |          |        |       |          |
| Internal Standards         |        |      |          |        |       |          |
| 1) Pentafluorobenzene      | 8.224  | 168  | 190016   | 50.000 | ug/l  | 0.00     |
| 34) 1,4-Difluorobenzene    | 9.100  | 114  | 329028   | 50.000 | ug/l  | 0.00     |
| 63) Chlorobenzene-d5       | 11.865 | 117  | 296396   | 50.000 | ug/l  | 0.00     |
| 72) 1,4-Dichlorobenzene-d4 | 13.788 | 152  | 151901   | 50.000 | ug/l  | 0.00     |

#### System Monitoring Compounds

|                           |        |       |          |          |      |         |
|---------------------------|--------|-------|----------|----------|------|---------|
| 33) 1,2-Dichloroethane-d4 | 8.577  | 65    | 131367   | 47.866   | ug/l | 0.00    |
| Spiked Amount             | 50.000 | Range | 74 - 125 | Recovery | =    | 95.740% |
| 35) Dibromofluoromethane  | 8.165  | 113   | 105196   | 47.234   | ug/l | 0.00    |
| Spiked Amount             | 50.000 | Range | 75 - 124 | Recovery | =    | 94.460% |
| 50) Toluene-d8            | 10.565 | 98    | 383751   | 46.776   | ug/l | 0.00    |
| Spiked Amount             | 50.000 | Range | 86 - 113 | Recovery | =    | 93.560% |
| 62) 4-Bromofluorobenzene  | 12.847 | 95    | 152428   | 49.714   | ug/l | 0.00    |
| Spiked Amount             | 50.000 | Range | 77 - 121 | Recovery | =    | 99.420% |

#### Target Compounds

|                              |       |     |         |         |      | Qvalue |
|------------------------------|-------|-----|---------|---------|------|--------|
| 2) Dichlorodifluoromethane   | 2.124 | 85  | 98535   | 45.109  | ug/l | 94     |
| 3) Chloromethane             | 2.359 | 50  | 110713  | 42.833  | ug/l | 100    |
| 4) Vinyl Chloride            | 2.512 | 62  | 111788  | 47.581  | ug/l | 100    |
| 5) Bromomethane              | 2.901 | 94  | 55097   | 44.262  | ug/l | 97     |
| 6) Chloroethane              | 3.065 | 64  | 71084   | 48.846  | ug/l | 95     |
| 7) Trichlorofluoromethane    | 3.459 | 101 | 184431  | 47.655  | ug/l | 99     |
| 8) Diethyl Ether             | 3.954 | 74  | 69785   | 51.116  | ug/l | 99     |
| 9) 1,1,2-Trichlorotrifluo... | 4.353 | 101 | 105255  | 48.131  | ug/l | 99     |
| 10) Methyl Iodide            | 4.571 | 142 | 145410  | 49.751  | ug/l | 95     |
| 11) Tert butyl alcohol       | 5.548 | 59  | 109921  | 303.429 | ug/l | 99     |
| 12) 1,1-Dichloroethene       | 4.318 | 96  | 102511  | 47.374  | ug/l | 98     |
| 13) Acrolein                 | 4.171 | 56  | 91971   | 254.599 | ug/l | 100    |
| 14) Allyl chloride           | 5.012 | 41  | 181709  | 51.780  | ug/l | 92     |
| 15) Acrylonitrile            | 5.718 | 53  | 301916  | 287.886 | ug/l | 99     |
| 16) Acetone                  | 4.424 | 43  | 242973  | 307.136 | ug/l | 99     |
| 17) Carbon Disulfide         | 4.700 | 76  | 267359  | 40.121  | ug/l | 100    |
| 18) Methyl Acetate           | 5.018 | 43  | 156566  | 54.417  | ug/l | 98     |
| 19) Methyl tert-butyl Ether  | 5.789 | 73  | 369566  | 55.721  | ug/l | 98     |
| 20) Methylene Chloride       | 5.265 | 84  | 117488  | 48.673  | ug/l | 87     |
| 21) trans-1,2-Dichloroethene | 5.777 | 96  | 104482  | 47.023  | ug/l | 97     |
| 22) Diisopropyl ether        | 6.671 | 45  | 370440  | 53.125  | ug/l | 98     |
| 23) Vinyl Acetate            | 6.595 | 43  | 1401496 | 291.453 | ug/l | 98     |
| 24) 1,1-Dichloroethane       | 6.559 | 63  | 208481  | 49.800  | ug/l | 99     |
| 25) 2-Butanone               | 7.483 | 43  | 396419  | 309.609 | ug/l | 99     |
| 26) 2,2-Dichloropropane      | 7.483 | 77  | 173353  | 47.576  | ug/l | 98     |
| 27) cis-1,2-Dichloroethene   | 7.483 | 96  | 129513  | 49.919  | ug/l | 97     |
| 28) Bromochloromethane       | 7.812 | 49  | 74009   | 44.372  | ug/l | 99     |
| 29) Tetrahydrofuran          | 7.836 | 42  | 261411  | 307.750 | ug/l | 97     |
| 30) Chloroform               | 7.959 | 83  | 218399  | 51.255  | ug/l | 98     |
| 31) Cyclohexane              | 8.253 | 56  | 177857  | 46.940  | ug/l | 98     |
| 32) 1,1,1-Trichloroethane    | 8.165 | 97  | 198048  | 51.066  | ug/l | 98     |
| 36) 1,1-Dichloropropene      | 8.365 | 75  | 145303  | 47.043  | ug/l | 99     |
| 37) Ethyl Acetate            | 7.559 | 43  | 156969  | 56.012  | ug/l | 98     |
| 38) Carbon Tetrachloride     | 8.359 | 117 | 169478  | 49.090  | ug/l | 98     |
| 39) Methylcyclohexane        | 9.594 | 83  | 163886  | 52.156  | ug/l | 98     |
| 40) Benzene                  | 8.600 | 78  | 468176  | 47.198  | ug/l | 99     |

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 Quant Title : SW846 8260  
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 Response via : Initial Calibration

Manual Integrations  
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Reviewed By :John Carlone 11/19/2024  
 Supervised By :Mahesh Dadoda 11/19/2024

| Compound                      | R.T.   | QIon | Response | Conc     | Units  | Dev(Min) |
|-------------------------------|--------|------|----------|----------|--------|----------|
| 41) Methacrylonitrile         | 7.777  | 41   | 87446    | 58.026   | ug/l   | 96       |
| 42) 1,2-Dichloroethane        | 8.665  | 62   | 159987   | 49.802   | ug/l   | 99       |
| 43) Isopropyl Acetate         | 8.688  | 43   | 382423   | 74.336   | ug/l # | 89       |
| 44) Trichloroethene           | 9.347  | 130  | 107891   | 47.162   | ug/l   | 99       |
| 45) 1,2-Dichloropropane       | 9.618  | 63   | 115924   | 49.819   | ug/l   | 99       |
| 46) Dibromomethane            | 9.706  | 93   | 80747    | 49.178   | ug/l   | 98       |
| 47) Bromodichloromethane      | 9.888  | 83   | 173339   | 50.082   | ug/l # | 99       |
| 48) Methyl methacrylate       | 9.677  | 41   | 130614   | 59.886   | ug/l   | 99       |
| 49) 1,4-Dioxane               | 9.694  | 88   | 42142    | 1090.372 | ug/l # | 79       |
| 51) 4-Methyl-2-Pentanone      | 10.441 | 43   | 819631   | 306.803  | ug/l   | 99       |
| 52) Toluene                   | 10.630 | 92   | 294133   | 50.701   | ug/l   | 100      |
| 53) t-1,3-Dichloropropene     | 10.835 | 75   | 177952   | 49.671   | ug/l   | 100      |
| 54) cis-1,3-Dichloropropene   | 10.312 | 75   | 187228   | 49.377   | ug/l   | 96       |
| 55) 1,1,2-Trichloroethane     | 11.018 | 97   | 109438   | 50.079   | ug/l   | 96       |
| 56) Ethyl methacrylate        | 10.871 | 69   | 195166   | 61.743   | ug/l   | 97       |
| 57) 1,3-Dichloropropane       | 11.159 | 76   | 192380   | 51.295   | ug/l   | 99       |
| 58) 2-Chloroethyl Vinyl ether | 10.159 | 63   | 416635   | 281.679  | ug/l   | 98       |
| 59) 2-Hexanone                | 11.194 | 43   | 615617   | 316.584  | ug/l   | 98       |
| 60) Dibromochloromethane      | 11.359 | 129  | 130027   | 52.207   | ug/l   | 99       |
| 61) 1,2-Dibromoethane         | 11.471 | 107  | 114125   | 50.998   | ug/l   | 100      |
| 64) Tetrachloroethene         | 11.100 | 164  | 91306    | 46.312   | ug/l   | 95       |
| 65) Chlorobenzene             | 11.888 | 112  | 306664   | 46.248   | ug/l   | 97       |
| 66) 1,1,1,2-Tetrachloroethane | 11.959 | 131  | 111858   | 48.498   | ug/l   | 99       |
| 67) Ethyl Benzene             | 11.965 | 91   | 559579   | 50.556   | ug/l   | 99       |
| 68) m/p-Xylenes               | 12.071 | 106  | 415818   | 99.232   | ug/l   | 99       |
| 69) o-Xylene                  | 12.394 | 106  | 205839   | 52.510   | ug/l   | 99       |
| 70) Styrene                   | 12.412 | 104  | 344225   | 50.339   | ug/l   | 99       |
| 71) Bromoform                 | 12.576 | 173  | 85750    | 49.409   | ug/l # | 96       |
| 73) Isopropylbenzene          | 12.694 | 105  | 522919   | 49.124   | ug/l   | 100      |
| 74) N-amyl acetate            | 12.494 | 43   | 250556   | 55.303   | ug/l   | 100      |
| 75) 1,1,2,2-Tetrachloroethane | 12.935 | 83   | 173516   | 48.835   | ug/l   | 100      |
| 76) 1,2,3-Trichloropropane    | 12.994 | 75   | 142014m  | 46.770   | ug/l   |          |
| 77) Bromobenzene              | 12.976 | 156  | 122800   | 42.912   | ug/l   | 98       |
| 78) n-propylbenzene           | 13.035 | 91   | 596159   | 47.792   | ug/l   | 98       |
| 79) 2-Chlorotoluene           | 13.123 | 91   | 381268   | 46.778   | ug/l   | 99       |
| 80) 1,3,5-Trimethylbenzene    | 13.171 | 105  | 437859   | 49.629   | ug/l   | 98       |
| 81) trans-1,4-Dichloro-2-b... | 12.735 | 75   | 61408    | 47.979   | ug/l   | 99       |
| 82) 4-Chlorotoluene           | 13.218 | 91   | 377042   | 43.956   | ug/l   | 100      |
| 83) tert-Butylbenzene         | 13.435 | 119  | 380955   | 52.173   | ug/l   | 98       |
| 84) 1,2,4-Trimethylbenzene    | 13.482 | 105  | 446169   | 48.998   | ug/l   | 100      |
| 85) sec-Butylbenzene          | 13.618 | 105  | 501568   | 48.629   | ug/l   | 99       |
| 86) p-Isopropyltoluene        | 13.729 | 119  | 422297   | 49.923   | ug/l   | 99       |
| 87) 1,3-Dichlorobenzene       | 13.729 | 146  | 228918   | 40.990   | ug/l   | 99       |
| 88) 1,4-Dichlorobenzene       | 13.812 | 146  | 226406   | 44.033   | ug/l   | 99       |
| 89) n-Butylbenzene            | 14.053 | 91   | 357120   | 45.133   | ug/l   | 99       |
| 90) Hexachloroethane          | 14.329 | 117  | 82187    | 43.568   | ug/l   | 98       |
| 91) 1,2-Dichlorobenzene       | 14.106 | 146  | 231172   | 43.076   | ug/l   | 100      |
| 92) 1,2-Dibromo-3-Chloropr... | 14.717 | 75   | 35543    | 49.378   | ug/l   | 100      |
| 93) 1,2,4-Trichlorobenzene    | 15.394 | 180  | 115285   | 39.248   | ug/l   | 99       |
| 94) Hexachlorobutadiene       | 15.500 | 225  | 50621    | 39.243   | ug/l   | 96       |
| 95) Naphthalene               | 15.641 | 128  | 417329   | 47.466   | ug/l   | 100      |
| 96) 1,2,3-Trichlorobenzene    | 15.841 | 180  | 114987   | 40.326   | ug/l   | 98       |

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|----------|------|------|----------|------|-------|----------|
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(#) = qualifier out of range (m) = manual integration (+) = signals summed

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